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KATTEN MUCHIN ROSENMAN LLP			FOX, BRYAN J	
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			2686	

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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/646,938	NAKAMURA, TAKAHARU			
		Examiner	Art Unit			
		Bryan J. Fox	2686			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>02 N</u>	ovember 2005.				
, —	This action is FINAL . 2b) ☐ This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	• • • • • • • • • • • • • • • • • • • •					
7)						
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Infor	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) The reference of the matter of	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Dent et al (US005282250A).

Regarding claim 1, Dent et al disclose bi-directional authentication between a mobile station and a base station, so that it is not only the base station that requires the identity of the mobile station, but the mobile station that requires the identity of the base station (see column 1, line 67 – column 2, line 7), which reads on the claimed, "mobile terminal in a mobile communication system for authenticating a communicating party when communication is performed between the mobile terminal and a device on the side of a network." After the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2), which reads on the claimed, "authentication processing means which, when a request signal requesting operation execution is received from a

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network device, is for executing authentication processing to check whether said request signal is a request signal from an authorized network device; and operation execution means for executing an operation that is in accordance with said request signal only if authentication that the network device is an authorized network device is obtained."

Regarding claim 5, Dent et al disclose bi-directional authentication between a mobile station and a base station, so that it is not only the base station that requires the identity of the mobile station, but the mobile station that requires the identity of the base station (see column 1, line 67 - column 2, line 7), which reads on the claimed, "mobile communication system for authenticating a communicating party when communication is performed between a mobile terminal and a device on the side of a network." After the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2), which reads on the claimed, "authentication processing means which, when a signal requesting execution of a prescribed operation has been received from a network device, is for sending an authentication request signal to the network device in order to determine whether said request signal is a request signal from an authorized network device; performing an authentication operation; and comparing result of this

authentication operation with result of an authentication operation sent from the network device; and operation execution means for executing an operation that is in accordance with said request signal only if authentication that the network device is an authorized network device is obtained; and said network device includes an authentication operation unit for executing an authentication operation based upon an authentication request signal received from said mobile terminal based upon an authentication request signal received from said mobile terminal, and sending result of this authentication operation to the mobile terminal."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2, 4, 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dent et al in view of Hayashi et al (US006321094B1).

Regarding claim 2, Dent et al disclose that after the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds and the mobile forms a value RESP3 from the PIN and RAND2 and sends this value to the base station (see column 3, lines 4-34 and figure 2), which reads on the claimed, "means for storing an identifier and key information of a mobile terminal...an authentication operation unit for executing a prescribed authentication operation using said key information and random number; an authentication request signal transmitter for creating an authentication request signal transmitter for creating an authentication request signal, which includes said terminal identifier and random number, and sending this signal to the network device; a receiver for receiving an authentication result, which has been obtained by an authentication operation performed on the network side, from the network device; and a comparator for comparing the authentication result computed by the mobile terminal and the authentication result sent form the network device; and said operation execution means executes the operation that is in accordance with said request signal upon deciding that the network device is an authorized network device when the compared results agree." Dent et al fail to expressly disclose that the mobile terminal includes a random number generator.

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In a similar field of endeavor, Hayashi et al disclose a mobile terminal that includes a random number generator (see column 3, lines 7-21).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Hayashi et al to include the above random number generator in the mobile terminal in order to conserve the processing required to generate and send a random number at the system level.

Regarding claim 4, Dent et al disclose bi-directional authentication between a mobile station and a base station, so that it is not only the base station that requires the identity of the mobile station, but the mobile station that requires the identity of the base station (see column 1, line 67 - column 2, line 7), which reads on the claimed, "network device in a mobile communication system for authenticating a network device by comparing, at a mobile terminal, authentication results computed by respective ones of the mobile terminal and network device when communication is performed between these two devices." After the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2), which reads on the claimed, "means for sending a signal, which requests that a mobile terminal execute a prescribed operation, to said mobile terminal...a receiver for receiving, from the mobile terminal that has received said

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request signal, an authentication request signal that includes the identifier and random number of said mobile terminal," and, "an authentication operation unit for executing an authentication operation," and, "a transmitting unit for transmitting the authentication result to the mobile terminal." Dent et al fails to disclose the use of a table for storing correspondence between an identifier and key information of a mobile terminal and a key-information acquisition unit for acquiring key information, which corresponds to the received identifier of the mobile terminal, from said table.

In a similar field of endeavor, Hayashi et al disclose the use of a database to store the necessary information for authentication (see column 3, lines 7-33).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Hayashi et al to include the above storage of authorization information in order to avoid using the processing resources to compute the data.

Regarding claim 6, Dent et al disclose that after the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2), which reads on the claimed invention with an authentication operation unit for executing a prescribed authentication operation using key information and random number, "an authentication

request signal transmitter for creating an authentication request signal, which includes said terminal identifier and random number, and sending this signal to the network device; a receiver for receiving result of an authentication operation obtained by an authentication operation of the network device; and a comparator for comparing result of the authentication operation performed by the mobile terminal and the result of the authentication operation sent from the network device; and the authentication processing means decides that the network device is an authorized device when the compared results agree." Dent et al fail to disclose that the mobile terminal includes a ransom-number generator for generating any random number.

In a similar field of endeavor, Hayashi et al disclose a mobile terminal that includes a random number generator (see column 3, lines 7-21 and figure 2).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Hayashi et al to include the above random number generator in the mobile unit in order to conserve the processing required to generate and send a random number at the system level.

Regarding **claim 8**, Dent et al disclose that after the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2), which reads on the

claimed, "means for sending a mobile terminal a request signal requesting execution of an operation... a receiver for receiving, from a mobile terminal that has received said request signal requesting execution of the operation, an authentication request signal that includes an identifier... of said mobile terminal," and, "an authentication operation unit executes an authentication operation," and, "sending result of the authentication operation to the mobile terminal." Dent et al fails to disclose the use of a table for storing correspondence between an identifier and key information of a mobile terminal and a key-information acquisition unit for acquiring key information, which corresponds to the received identifier of the mobile terminal, from said table or the random number being sent from the terminal.

In a similar field of endeavor, Hayashi et al disclose the use of a database to store the necessary information for authentication (see column 3, lines 7-33) and a random number generating unit at the mobile terminal.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Hayashi et al to include the above storage of authorization information and random number generating unit at the mobile in order to avoid using the processing resources to compute the data and generate and send random numbers at the network.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dent et al in view of Rosenthal et al (US005737701).

Regarding claim 3, Dent et al disclose bi-directional authentication between a mobile station and a base station, so that it is not only the base station that requires the identity of the mobile station, but the mobile station that requires the identity of the base station before a call is completed (see column 1, line 67 – column 2, line 7), which reads on the claimed, "said authentication processing means executes authentication processing if a request is one requiring authentication, and said operation execution means executes the operation that is in accordance with said request signal if authentication that the network device is an authorized network device is obtained."

Dent et al fail to disclose an authentication necessity table which indicates whither each request received from the network device requires authentication and forgoing authentication processing if a request is not one requiring authentication.

In a similar field of endeavor, Rosenthal et al disclose a table that can be searched for instances where authentication is waived (see figure 3 and column 6, lines 20-28).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Rosenthal et al to include the above authentication database in order to reduce the likelihood of communications fraud by decreasing the exposure of the authentication code as suggested by Rosenthal et al (see column 3, lines 52-57).

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dent et al in view of Jiang et al (US 20020057678A1).

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Regarding **claim 7**, Dent et al disclose bi-directional authentication between a mobile station and a base station, so that it is not only the base station that requires the identity of the mobile station, but the mobile station that requires the identity of the base station before a call is completed (see column 1, line 67 – column 2, line 7), which reads on the claimed, "said authentication processing means executes authentication processing if a request is one requiring authentication, and said operation execution means executes the operation that is in accordance with said request signal if authentication that the network device is an authorized network device is obtained." Dent et al fail to expressly disclose forgoing authentication processing if a request is not one requiring authentication.

In a similar field of endeavor, Jiang et al disclose skipping authentication if it is not necessary for a particular application (see paragraph 208).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Jiang et al to include the above skipping authentication when not necessary for an application in order to conserve system resources.

Claims 9, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dent et al in view of Lipovski (US 20040087318A1).

Regarding claim 9, Dent et al fail to disclose the request signal requesting operation execution is a signal requesting that emission of radio waves be inhibited.

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In a similar field of endeavor, Lipovski discloses a transmitter sending a signal requesting a terminal to mute radio frequency generation (see paragraph 20).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Lipovski to include the above signal muting radio frequency generation in order to automatically restrict devices where they would create a distraction or in airplanes (see paragraphs 3-4).

Regarding **claim 10**, Dent et al fail to disclose the request signal requesting operation execution is a signal requesting that inhibition of emission of radio waves be cancelled.

In a similar field of endeavor, Lipovski discloses a transmitter sending a signal requesting a terminal to mute radio frequency generation, then at the exit, another to allow transmission (see paragraph 20).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Lipovski to include the above signal muting radio frequency generation and allowance in order to automatically restrict devices where they would create a distraction or in airplanes (see paragraphs 3-4) and to provide minimum inconvenience to the user.

Regarding **claim 11**, Dent et al fail to disclose the request signal requesting operation execution is a signal requesting that the mobile station make a transmission to power cut-off or to a standby operation.

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In a similar field of endeavor, Lipovski discloses a transmitter sending a signal requesting a terminal to mute radio frequency generation (see paragraph 20), which reads on the claimed, "standby operation."

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Lipovski to include the above signal muting radio frequency generation in order to automatically restrict devices where they would create a distraction or in airplanes (see paragraphs 3-4).

Claims 12, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dent et al in view of Durst et al (US 20030122707A1).

Regarding **claim 12**, Dent et al fail to disclose that the request signal requesting operation execution is a signal requesting disclosure of mobile terminal information possessed by the mobile terminal.

In a similar field of endeavor, Durst et al disclose a base station transmits a location information request to a mobile terminal and the terminal responds with current location information (see paragraph 39), which reads on the claimed, "said request signal requesting operation execution is a signal requesting disclosure of mobile terminal information possessed by the mobile terminal."

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Durst et al to include the above location information update in order to assist the authorities in case of an emergency by providing the location of a user.

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Regarding **claim 14**, Dent et al fail to disclose the mobile terminal information is status information of the mobile terminal.

In a similar field of endeavor, Durst et al disclose a base station transmits a location information request to a mobile terminal and the terminal responds with current location information (see paragraph 39), which reads on the claimed, "said mobile terminal information is status information of the mobile terminal."

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Durst et al to include the above location information update in order to assist the authorities in case of an emergency by providing the location of a user.

Regarding **claim 15**, Dent et al fail to disclose the status information is voltage information indicating residual capacity of a battery of the terminal, or traveling-velocity information measured by a mobile unit, or present-position information detected by a mobile unit.

In a similar field of endeavor, Durst et al disclose a base station transmits a location information request to a mobile terminal and the terminal responds with current location information (see paragraph 39), which reads on the claimed, "said status information is voltage information indicating residual capacity of a battery of the terminal, or traveling-velocity information measured by a mobile unit, or present-position information detected by a mobile unit."

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Dent et al with Durst et al to include the above location

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information update in order to assist the authorities in case of an emergency by providing the location of a user.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dent et al in view of Durst et al, as applied to claim 12 above, and further in view of Mills (US005915225A).

Regarding **claim 13**, the combination of Dent et al and Durst et al fails to expressly disclose that the mobile terminal information is user settings information that a user of the mobile terminal has stored beforehand in a storage unit of the mobile terminal.

In a similar field of endeavor, Mills discloses a system that allows the mobile telecommunications network to request and retrieve the desired subscriber information stored in a SIM card via over-the-air connection-less signals (see column 5, lines 1-13).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Dent et al and Durst et al with Mills to include the above network requesting subscriber information in order to eliminate the need for a subscriber to verbally provide details or tediously enter a long series of numbers while on the phone as suggested by Mills (see column 4, line 56 – column 5, line 13).

Response to Arguments

Applicant's arguments filed November 2, 2005 have been fully considered but they are not persuasive.

The Applicant argues that Dent fails to disclose when a request signal requesting operation execution is received from a network device the mobile executes authentication processing to check whether the request signal is form an authorized network device and operation execution means for executing an operation that is in accordance with said request signal only if authentication that the network device is an authorized network device is obtained. The examiner respectfully disagrees. Dent et al disclose that after the base station authenticates the mobile station, the mobile station authenticates the base station (see column 3, lines 4-34 and figure 2), which reads on the claimed, "authentication processing means which, when a request signal requesting operation execution is received from a network device, is for executing authentication processing to check whether said request signal is a request signal from an authorized network device; and operation execution means for executing an operation that is in accordance with said request signal only if authentication that the network device is an authorized network device is obtained," wherein the operation execution request may be, for example, the base station enquiring if a mobile wants to establish a call (see column 2, lines 47-63).

The applicant argues that Dent fails to disclose an authentication operation based upon an authentication operation based upon an authentication request signal received from the mobile terminal and sends a result of this authentication operation to the mobile terminal. This exact limitation is not cited in the claim; the Examiner believes the Applicant means "an authentication operation based upon an authentication request signal received from the mobile terminal." The Examiner respectfully disagrees. Dent

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discloses after the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2).

The applicant argues that the combination of Dent and Hayashi fails to disclose how to use the random number generator disclosed by Hayashi. The Examiner respectfully disagrees. Dent is relied upon to disclose the use of the random number (see rejection of claims 2 and 6 above).

The applicant argues that the combination of Dent and Hayashi fails to disclose a network device receives a random number generated in the mobile terminal, executes an authentication operation and sends a result of the authentication operation to the mobile terminal, and the mobile terminal decides that the network received result. The Examiner respectfully disagrees. Dent et al disclose after the base station authenticates the mobile station, the base station forms a response signal from a further random number RAND2 and form the personal identification number PIN of the mobile, this number being known in the base station and this is sent to the mobile station. The mobile station forms a value of RESP2 from its PIN and the received number RAND2 and compares this formed value with the received RESP2. If the two values coincide, the method proceeds (see column 3, lines 4-34 and figure 2). Hayashi et al disclose the

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use of a database to store the necessary information for authentication (see column 3, lines 7-33).

Applicant's arguments with respect to claim 3 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action: Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan J. Fox whose telephone number is (571) 272-7908. The examiner can normally be reached on Monday through Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone

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273-8300.

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number for the organization where this application or proceeding is assigned is 571-

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Bryan Fox February 1, 2006

> CHARLES APPIAH PRIMARY EXAMINER